

Industrial Engineering with minor in Systems Engineering

B.S. Program

The Industrial Engineering with minor in Systems Engineering (B.S.) program, is accredited by the Engineering Accreditation Commission of [ABET](#), under the commission's General Criteria and Program Criteria for Industrial and Similarly Named Engineering Programs.

[Academic Program Information](#)

Program Educational Objectives (PEOs)

The Program Educational Objectives (PEOs) of the Industrial Engineering with minor in Systems Engineering (B.S.) are broad statements describing the expected accomplishments of graduates within a few years after graduation. These objectives are that graduates will:

1. Leads initiatives aimed at solving complex problems, utilizing tools from industrial and systems engineering, applying an integrative and sustainable approach.
2. Guides processes of organizational transformation or change in a national or international setting, collaborating with multidisciplinary or multicultural teams.
3. Generates value propositions that contribute to the development or improvement of their community, with a sense of social responsibility.
4. Stays updated in their professional field through postgraduate studies or specializations in their disciplinary area or complementary areas to adapt to change.
5. Manages innovation or entrepreneurship initiatives as part of the roles they undertake or within their own company.

Student Outcomes (SOs)

By the time of graduation, students of the program will be able to demonstrate:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.